

CLAIMS

1. A playback apparatus for playing a digital stream in conjunction with an application, comprising:

5 a package management unit operable to generate package information by merging file's recorded on a first recording medium and a second recording medium, in accordance with merge management information; and

a selection unit operable to detect a plurality of playable titles from the package information, and select one
10 of the detected titles as a current title, wherein

after the application requests the package management unit to update the merge management information, by specifying new merge management information, the package management unit changes a file referenced from the newly
15 specified merge management information to read-only before updating the package information, and

at a point at which digital stream playback stops due to a current title change by the selection unit, the package management unit generates new package information by
20 combining files recorded on the first and second recording media, in accordance with the newly specified merge management information.

2. The playback apparatus of claim 1, wherein

25 the first recording medium is a read-only recording medium, and the second recording medium is a rewritable recording medium,

the merge management information is information

indicating a file on the second recording medium for merging with the first recording medium, and

the package management unit performs the merge management information updating by updating the merge management information to the new merge management information specified by the application.

3. The playback apparatus of claim 2, wherein the file on the second recording medium indicated by the merge management information is set to read-only for a period during which the package information is valid.

4. The playback apparatus of claim 2, wherein the package management unit prepares for the package information updating by verifying a validity of the new merge management information.

5. The playback apparatus of claim 4, wherein the package management unit verifies the validity of the new merge management information by confirming that the new merge management information has not been tampered with, confirming that a file indicated by the new merge management information exists on the second recording medium, and changing a file storing the new merge management information and a file referenced from the new merge management information to read-only.

6. The playback apparatus of claim 4, wherein

.the package management unit performs the package information updating if information in a permissible tag of the requesting application shows that a right to update the package information has been assigned, and

5 if information in a permissible tag of the requesting application shows that a right to update the package information has not been assigned, or if a permissible tag has not been assigned to the requesting application, the package management unit performs exception processing
10 without processing the update request from the application.

7. The playback apparatus of claim 2, wherein the package management unit creates package information from only the first recording medium if the merge management information
15 is- erased.

8. The playback apparatus of claim 2, wherein
the second recording medium includes a plurality of disc dependent areas, and
20 the package management unit identifies the disc dependent area corresponding to the loaded first recording medium, and writes the new merge management information specified by the application to the identified disc dependent area.

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9. The playback apparatus of claim 2, wherein
the first and second recording media have recorded thereon a plurality of digital streams and playlist

information showing a playback order of the digital streams,
digital stream playback is performed according to the
playback order shown by the playlist information, and

the selection unit performs the current title change
5 at a point at which digital stream playback based on the
playlist information and execution of the application in
conjunction with the digital stream end, by choosing a
different one of the detected titles as the current title.

10 10. The playback apparatus of claim 2, wherein the selection
unit performs the current title change at a point at which
a user executes an operation calling a menu processing title,
by choosing the menu processing title as the current title.

15 H-. The playback apparatus of claim 1 further comprising a
status register storing a parameter relating to digital
stream playback, and a backup register, wherein

the parameter stored in the status register is saved
to the backup register when the selection unit performs the
20 current title change, and the backup register is initialized
if the package information is updated.